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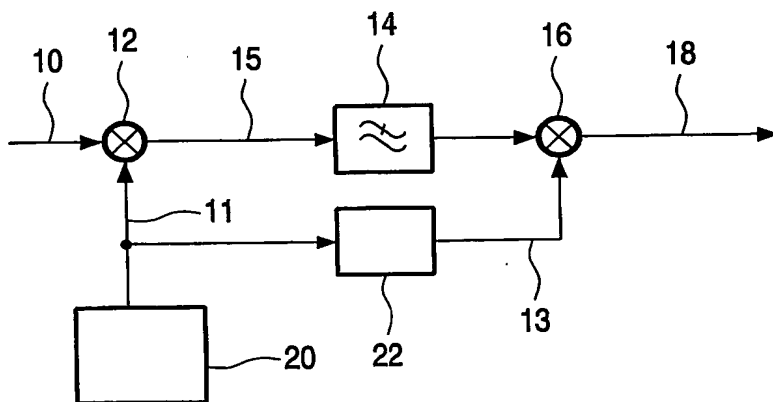
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(54) Title: MULTISTAGE FREQUENCY CONVERSION



(57) Abstract: A receiver for frequency down converting a radio frequency signal (10) using a multistage frequency (down) conversion. The radio frequency signal (10) having a center frequency that is comprised in one of at least two frequency bands, comprises oscillating means (20) for generating a first mixing signal (11) having a first frequency. And also a frequency divider (22) arranged to derive a second mixing signal (13) from the first mixing signal. The receiver further comprising a first mixer (12) arranged to down-convert the radio frequency signal (10) to a first lower frequency signal (15) using the first mixing signal (11) and a second mixer arranged to down-convert the first low

frequency signal to a second lower frequency signal (18) using the second mixing signal (13). Wherein the division factor of the frequency divider and a ratio between the center frequency and the first frequency are determined by the one of at least two frequency bands. Similarly a transmitter can transmit a radio frequency signal (53) by using multistage frequency (up) conversion.

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